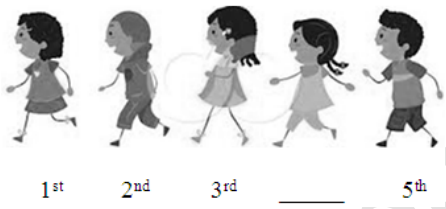
FAS-PASS
Maths

NATIONAL TEST 2014
Mathematics – Standard I

NO.	TEST ITEMS	WORKING COLUMN	*Do Not Write Here*
1.	Write the numeral for seventy-four. **Answer: 74**	Seventy is 7 tens = 7 0 Four is 4 ones = + 4 7 4	
2.	The picture below shows children marching in a line.  1st 2nd 3rd _____ 5th **Answer: 4th**	First is 1st. Second is 2nd. Third is 3rd. Fourth is 4th. Fifth is 5th. The missing position is 4th.	
3.a. b.	Complete the pattern below. 41, 43, 45, _____, 49 **Answer: 47** If the pattern continues, what numeral would come after 49? **Answer: 51**	a. From 41 to 43, 2 was added. From 43 to 45, 2 was added. Therefore, from 45 we should add 2 to get the next number in the pattern. = 45 + 2 = 47 b. We see that 47 + 2 = 49. Therefore, from 49 we add to 2 to get the next number. = 49 + 2 = 51	

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4.	Each bag has ten apples. How many apples are there altogether in the picture below? **Answer: 32 apples**	In the picture there are three bags and two apples. Since each bag has 10 apples, then the number of apples = 10 + 10 + 10 + 2 = 32 apples	
5. a. b.	Lisa and Mary both have dolls. Lisa's dolls are shown below. How many dolls does Lisa have? **Answer: 5 dolls** Mary has 3 dolls more than Lisa. How many dolls do you think Mary has? **Answer: 8 dolls**	a. By counting, Lisa has 5 dolls. b. Mary has 3 dolls more than Lisa. Therefore, Mary has 3 dolls more than 5 dolls. Mary has 5 + 3 = 8 dolls	

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6.	Add 13, 8 and 9. **Answer: 30**	$13 + 8 + 9$ $= 13 + (7 + 1) + 9$ $= (13 + 7) + (1 + 9)$ $= 20 + 10$ $= 30$	
7.	Ben bought 5 packs of stickers. Each pack has 4 stickers. How many stickers does Ben have altogether? **Answer: 20 stickers**	Each pack of stickers has 4 stickers. In 5 packs of stickers there would be 4 + 4 + 4 + 4 + 4 = 20 stickers OR 4×5 stickers. =20 stickers	

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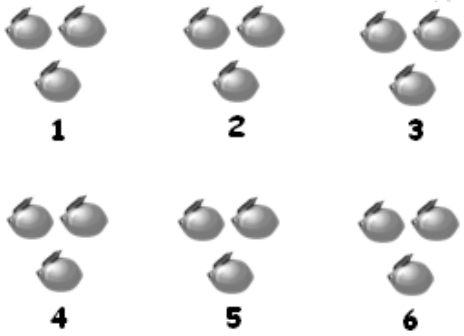
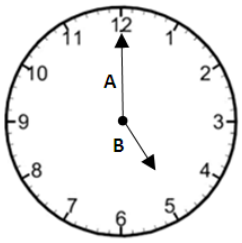
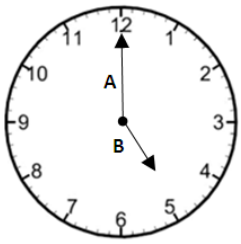
8.	Ana has 18 lemons for sale. She sells them in heaps of three. How many heaps of lemons does she have? **Answer: 6 heaps**	Number of lemons = 18 Each heap has 3 lemons.  Therefore, there would be 6 heaps of 3 lemons each. T O 3 | 1 | $^{1}8$ | | 6	
9.	Look at the clock. Circle the sentence below that is TRUE.  A is the hour hand. B is the hour hand Answer: B is the hour hand.	 In a clock, the longer of the two hands in the minute hand and the shorter is the hour hand. The hand marked A is longer than the hand marked B. Therefore, B is the hour hand.	

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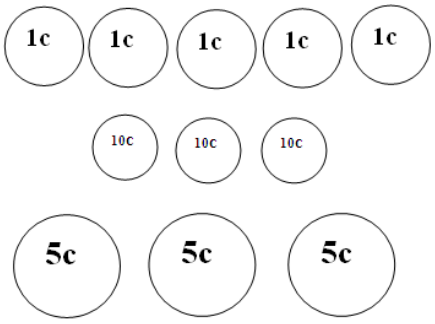
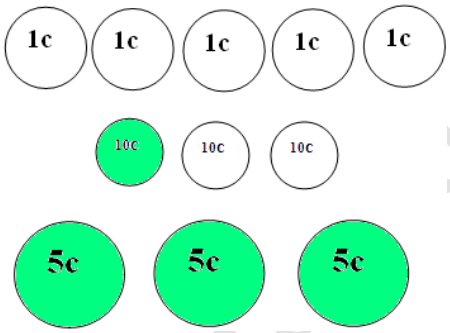
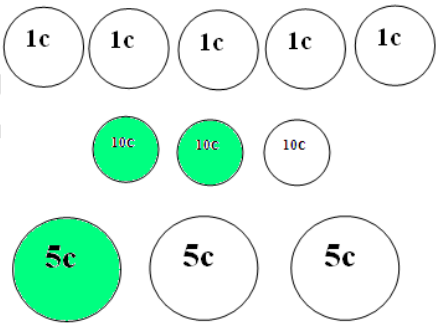
10.	Shade the coins to show 25 cents.  **Answer:**  **OR**  	To make up 25¢ with the coins, we could use: 1 of 10¢ = 1 0 + 3 of 5¢ = 1 5 = 2 5 **OR** 2 of 10¢ = 2 0 + 1 of 5¢ = 5 = 2 5	

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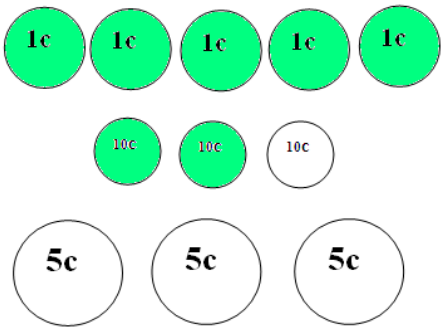
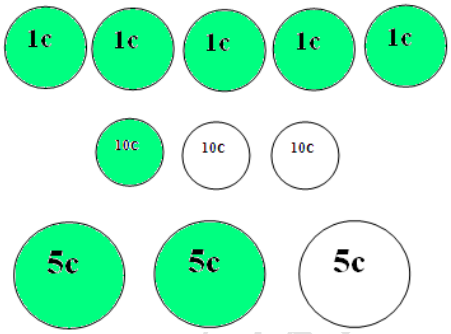
	OR  **OR**  	**OR** 2 of 10¢ = 2 0 + 5 of 1¢ = 5 = 2 5 **OR** 1 of 10¢ = 1 0 2 of 5¢ = 10 + 5 of 1¢ = 5 = 2 5	

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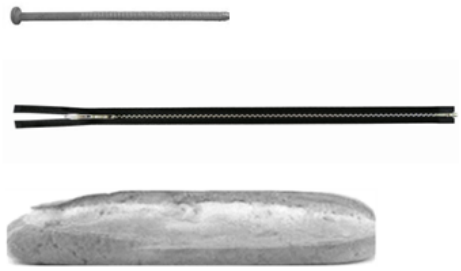
NO.	TEST ITEMS	WORKING COLUMN	*Do Not Write Here*
11.a.	Circle the object that is the **shortest** in length.  **Answer: Nail**	a. From the pictures, the nail looks the shortest.	
b.	How long is the pencil below? **Answer: 4 paperclips**	b. From one end of the pencil to the other end, we can check 4 paperclips. The pencil is 4 paperclips long or the length of four paperclips.	

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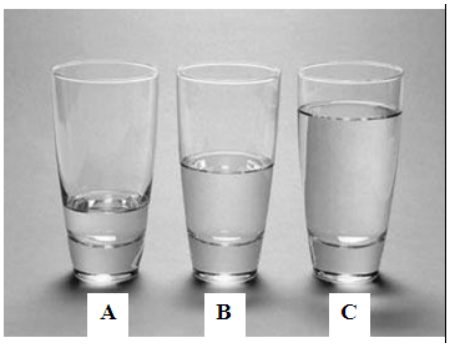
12.	The three glasses below are the same size.  Fill in the blanks below.	a. From the picture, the level of water in glass C is higher than the levels in glass A and in glass B. The level in glass C is close to the top of the glass. Glass C is nearly full of water. b. The water level is lowest in glass A. Therefore glass A has the least amount of water. Hence, glass A will need the most amount of water to be filled.	
a.	Glass **C** is nearly full of water.		
b.	Glass **A** needs the MOST amount of water to be filled.		

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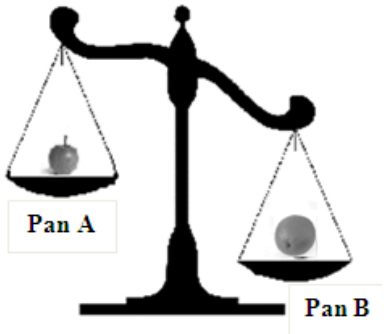
13.	The drawing below shows an equal arm balance.  	a. Pan B hangs lower than Pan A. Therefore, Pan B has the heavier object. b. The orange weighs the same as 10 marbles. The orange also weighs more than the apple in Pan A. Therefore the apple in Pan A will therefore weigh less than 10 marbles. So the apple in Pan A will weigh between 1 marble and 9 marbles.	
a.	Which pan has the heavier object? **Answer: Pan B**		
b.	The orange in **Pan B** weighs the same as 10 marbles. How many marbles do you think the apple in **Pan A** weighs? **Answer: 1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 marbles**		

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14.	One month of a Calendar is shown below. 		
a.	How many days are there in the month of May? **Answer: 31 days**	a. The days are numbered from 1 to 31. Therefore, there are 31 days in May.	
b.	On what day of the week is the 27th of May? **Answer: Tuesday**	b. The 27th day of May is in the column marked Tuesday, So the 27th day of May is a Tuesday.	
c.	Ravi's birthday is 5 days after the 27th of May. What month is his birthday? **Answer: June**	c. Since Ravi's birthday is 5 days after the 27th, then we must start counting from the 27th day of May. After counting 4 days we reach the last day of May which is the 31st. 1 2 3 4 May 28, 29, 30, 31 5 June 1 The 5th day will be the 1st day of the month after May which is June. Therefore, Ravi's birthday will be on the 1st of June.	

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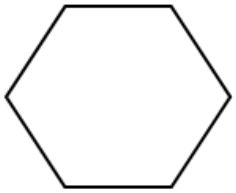
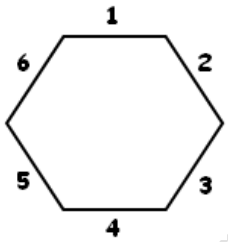
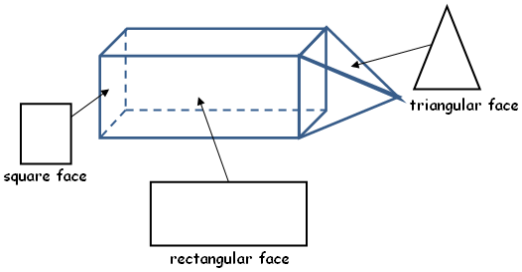
NO.	TEST ITEMS	WORKING COLUMN	*Do Not Write Here*
15.	How many sides does the shape below have?  **Answer: 6 sides**	 Choosing any side to start counting and checking in any direction, we shall count 6 sides.	
16.	Alan built a model using **two** solids. The model has a square face. Name **two** other plane shapes seen on the model. **Answer: Rectangle and triangle**		

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17.a.	Draw the next shape in the pattern. **Answer:** 	a. The pattern grows by adding one triangle but the new triangle is flipped upside down from the previous one. To get the 4th pattern we will add to the 3rd shape in the pattern, to get 	
b.	How many triangles are used to form the 9th shape in the pattern? **Answer: 9 triangles**	b. The 1st shape has 1 triangle. The 2nd shape has 2 triangles. The 3rd shape has 3 triangles. The 4th shape has 4 triangles. Following this pattern, the 9th shape should have 9 triangles.	

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18.	The table shows the number of video games owned by three children. **Name** / **Tally** / **Number of video games** Jason / 𝍸 / 5 Mark / 𝍸 𝍸 | / 11 Sasha / _____ / 8		
a.	Complete the table. Answer: **Name** / **Tally** / **Number of video games** Jason / 𝍸 / 5 Mark / 𝍸 𝍸 | / 11 Sasha / 𝍸 ||| / 8	a. To complete the table, we draw the tally marks to represent the 8 video games owned by Sasha. To draw eight tally marks, we make one group of 5 and three ones. 𝍸 ||| **Name** / **Tally** / **Number of video games** Jason / 𝍸 / 5 Mark / 𝍸 𝍸 | / 11 Sasha / 𝍸 ||| / 8	
b.	Who owned more than 10 video games? **Answer: Mark**	b. In 5, 11 an 8, the only number that is more than 10 is 11. Therefore, Mark is the only person who owned more than 10 video games.	

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19.	The table shows the number of flower plants in a garden. **Type of plant** | **Number of plants** Rose | 12 Buttercup | 8 Hibiscus | 15	a. The smallest number from among 12, 8 and 15 is 8. Therefore, Buttercup is the least popular plant in the garden. b. The total number of plants in the garden = 12 + 8 + 15 = 20 + 15 = 35	
a.	What is the **least** popular plant in the garden? **Answer: Buttercup**		
b.	What is the **total** number of plants in the garden? **Answer: 35 plants**		

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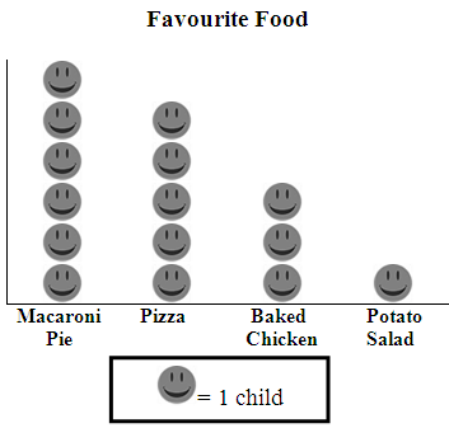
20.	The diagram shows the favourite foods of children in a class.  		
a.	How many children like pizza? **Answer: 5 children**	a. The number of children who like pizza is $=1+1+1+1+1$ $=5$	
b.	How many **more** children like baked chicken than potato salad? **Answer: 2 more children**	b. The number of children who like baked chicken is $=1+1+1$ $=3$ The number of children who like potato salad is $=1$ $3-1=2$ Two more children like baked chicken than potato salad.	
c.	There are **seven** girls in the class. How many boys are there? **Answer: 9 boys**	c. The number of children in the class is 6 5 + 3 1 Total 15 The class has 7 girls. So the rest are boys. Number of boys = 16 – 7 = 9 boys	

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